

Project Title	Funding	Strategic Plan Objective	Institution
Abnormal network dynamics and "learning" in neural circuits from Fmr1-/- mice	\$192,500	Q2.S.D	University of California, Los Angeles
ACE Center: Auditory perception and perceptual organization in minimally verbal children with ASD	\$288,440	Q2.L.B	Boston University
ACE Center: Neuroimaging studies of connectivity in ASD	\$315,268	Q2.Other	Yale University
ACE Center: Ontogeny and neural basis of social visual engagement in monkeys	\$314,068	Q2.Other	Emory University
ACE Network: Multimodal developmental neurogenetics of females with ASD	\$3,118,985	Q2.S.B	Yale University
Alterations in brain-wide neuroanatomy in autism mouse models	\$300,000	Q2.Other	Cold Spring Harbor Laboratory
Behavioral, fMRI, and anatomical MRI investigations of attention in autism	\$47,114	Q2.Other	Massachusetts Institute of Technology
Behavioral and neural correlates of reward motivation in children with autism spectrum disorders	\$0	Q2.Other	University of North Carolina at Chapel Hill
Behavioral and neural processing of faces and expressions in nonhuman primates	\$435,600	Q2.Other	Emory University
Behavioral and neural responses to emotional faces in individuals with ASD	\$14,935	Q2.Other	Harvard University
Brain bases of language deficits in SLI and ASD	\$614,180	Q2.Other	Massachusetts Institute of Technology
Brain-behavior interactions and visuospatial expertise in autism: a window into the neural basis of autistic cognition	\$0	Q2.Other	Hospital Riviere-des-Praires, University of Montreal, Canada
CAREER: Integrative behavioural and neurophysiological studies of normal and autistic cognition using video game environments	\$0	Q2.Other	Cornell University
Cell adhesion molecules in autism: A whole-brain study of genetic mouse models	\$485,438	Q2.Other	Cold Spring Harbor Laboratory
CLARITY: circuit-dynamics and connectivity of autism-related behavior	\$124,320	Q2.Other	Stanford University
Cognitive control of emotion in autism	\$102,638	Q2.Other	University of Pittsburgh
Controlling interareal gamma coherence by optogenetics, pharmacology and behavior	\$84,775	Q2.Other	Massachusetts Institute of Technology
Corticothalamic circuit interactions in autism	\$250,000	Q2.Other	Boston Children's Hospital
Defining the electrophysiological dynamics of the default mode network	\$146,025	Q2.Other	University of Washington
Development of a connectomic functional brain imaging endophenotype of autism	\$0	Q2.Other	University of Cambridge
Development of brain connectivity in autism	\$0	Q2.Other	New York School of Medicine
Diffusion tensor MR spectroscopic imaging in human brain	\$203,715	Q2.Other	University of New Mexico Health Sciences Center
EEG-based assessment of functional connectivity in autism	\$175,042	Q2.Other	Kennedy Krieger Institute

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Electrophysiologic biomarkers of language function in autism spectrum disorders	\$28,600	Q2.L.B	University of California, Los Angeles
Examining connectivity patterns of brain networks participating in social cognition in ASD	\$40,000	Q2.Other	San Diego State University
Face perception: Mapping psychological spaces to neural responses	\$0	Q2.Other	Stanford University
Functional anatomy of face processing in the primate brain	\$1,660,304	Q2.Other	National Institutes of Health
Functional properties and directed connectivity in the face-processing network	\$55,670	Q2.Other	Yale University
Genome-wide identification of variants affecting early human brain development	\$611,005	Q2.S.G	University of North Carolina at Chapel Hill
Head-fixed recording of sensory learning in mouse autism models	\$0	Q2.Other	Princeton University
Influence of attention and arousal on sensory abnormalities in ASD	\$232,500	Q2.Other	University of California, San Diego
Investigating brain connectivity in autism at the whole-brain level	\$249,001	Q2.Other	Indiana University
Investigating brain connectivity in autism at the whole-brain level	\$88,508	Q2.Other	California Institute of Technology
Investigating brain organization and activation in autism at the whole-brain level	\$0	Q2.Other	California Institute of Technology
Investigation of social brain circuits and fever-evoked response in 16p11.2 mice	\$60,000	Q2.Other	Cold Spring Harbor Laboratory
Learning in autism spectrum disorders	\$28,902	Q2.Other	University of California, Davis
Linguistic perspective-taking in adults with high-functioning autism: Investigation of the mirror neuron system	\$0	Q2.Other	Carnegie Mellon University
Local connectivity in altered excitation/inhibition balance states	\$62,500	Q2.Other	Weizmann Institute of Science
Local functional connectivity in ASD	\$50,811	Q2.L.B	Massachusetts General Hospital
Longitudinal MRI study of brain development in fragile X	\$901,844	Q2.S.D	Stanford University
Mapping functional connectivity networks in autism spectrum disorder with diffuse optical tomography	\$55,170	Q2.Other	Washington University in St. Louis
Molecular controls over callosal projection neuron subtype specification and diversity	\$42,232	Q2.Other	Harvard University
Multimodal brain imaging in autism spectrum disorders	\$167,832	Q2.Other	University of Washington
Multimodal imaging of social brain networks in ASD	\$150,036	Q2.Other	San Diego State University
Multisensory processing in autism	\$60,000	Q2.Other	Baylor College of Medicine
Nav1.1 channels, neural circuits, and autism	\$10,213	Q2.S.D	University of Washington

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Neocortical mechanisms of categorical speech perception	\$239,255	Q2.Other	University of California, San Francisco
Networked cortical responses to movement associated with ASD	\$449,700	Q2.Other	University of Washington
Neural basis of empathy and its dysfunction in autism spectrum disorders (ASD)	\$0	Q2.Other	Duke University
Neural mechanisms of imitative behavior: Implications for mental health	\$33,128	Q2.Other	University of California, Los Angeles
Neural mechanisms underlying an extended multisensory temporal binding window in ASD	\$0	Q2.Other	Vanderbilt University
Neural mechanisms underlying autism behaviors in SCN1A mutant mice	\$94,903	Q2.S.D	University of Washington
Neural synchronydysfunction of gamma oscillations in autism	\$265,073	Q2.Other	University of Colorado Denver
Neural synchronydysfunction of gamma oscillations in autism (supplement)	\$100,386	Q2.Other	University of Colorado Denver
Neural underpinning of emotion perception and its disorders	\$30,000	Q2.Other	Dartmouth College
Neurobehavioral investigation of tactile features in autism spectrum disorders	\$162,666	Q2.Other	Vanderbilt University Medical Center
Neurobiological signatures of audiovisual speech perception in children in ASD	\$217,886	Q2.Other	Haskins Laboratories, Inc.
Neuroimaging of top-down control and bottom-up processes in childhood ASD	\$387,066	Q2.Other	Georgetown University
Neuroimaging of top-down control and bottom-up processes in childhood ASD (supplement)	\$111,600	Q2.Other	Georgetown University
Neuronal basis of vicarious reinforcement dysfunction in autism spectrum disorder	\$310,081	Q2.Other	Duke University
Novel regulatory network involving non-coding role of an ASD candidate gene PTEN	\$208,750	Q2.Other	Albert Einstein College of Medicine of Yeshiva University
Probing the neural basis of social behavior in mice	\$62,500	Q2.S.D	Massachusetts Institute of Technology
Probing the temporal dynamics of aberrant neural communication and its relation to social processing deficits in autism spectrum disorders	\$0	Q2.Other	University of Pittsburgh
Social and affective components of communication	\$317,715	Q2.Other	Salk Institute For Biological Studies
Social behavior deficits in autism: Role of amygdala	\$0	Q2.Other	State University of New York Upstate Medical Center
Social brain networks for the detection of agents and intentions	\$414,688	Q2.Other	Yale University
Social interaction and reward in autism: Possible role for ventral tegmental area	\$62,496	Q2.Other	University of Geneva
Spatial attention in autism spectrum disorders	\$28,600	Q2.Other	New York University

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Stimulus preceding negativity and social stimuli in autism spectrum disorder	\$28,600	Q2.Other	University of California, San Diego
Structural and functional connectivity of large-scale brain networks in autism	\$168,978	Q2.Other	Stanford University
Synaptic processing in the basal ganglia	\$377,815	Q2.Other	University of Washington
Synchronous activity in networks of electrically coupled cortical interneurons	\$0	Q2.Other	University of California, Davis
Testing the hyperspecificity hypothesis: A neural theory of autism	\$247,018	Q2.Other	Children's Hospital of Philadelphia
Thalamocortical connectivity in children and adolescents with ASD-A combined fcMRI and DTI approach	\$28,600	Q2.Other	San Diego State University
The cognitive neuroscience of autism spectrum disorders	\$1,074,095	Q2.Other	National Institutes of Health
The neural bases of top-down attentional control in autism spectrum disorders	\$27,578	Q2.Other	City College of New York
The neural basis of weak central coherence in autism spectrum disorders	\$13,040	Q2.Other	Yale University
The neural substrates of higher-level learning in autism	\$192,500	Q2.Other	University of California, Davis
The neural substrates of social interactions	\$15,865	Q2.Other	University of Iowa
Vasopressin receptor polymorphism and social cognition	\$395,156	Q2.Other	Georgia State University

